

RE: Think Wireless, Inc.

FCC ID: UX3TWISIRWRS1

NOTE: Since the original application, the manufacturer has elected to make significant RF modifications to the device, in particular changing the pass band filters due to component availability issues. Additionally, they have supplied us with a new AC power adapter. The device has been fully retested, and the new test report and data reflect the updated device.

The following is in response to the comments made on the original referenced application.

1) Please correct the frequency typo mentioned in your previous email.

This has been corrected.

2) The Original XM document mentioned various design issues, which it is uncertain apply to this device. For instance, how about section 4.1 (AGC control)? What are the levels?

Section 4.1 of the approved test procedure details how the AGC within the XM device was designed to ensure that the device is output power limited. The test procedure then outlines a set of stimuli to be applied during testing to demonstrate this. Thus, it would appear that the measurements made demonstrate both compliance and the necessary functionality of the AGC circuit for different test stimuli. However, we have included a similar discussion of AGC functionality for the current device in the addendum to the test procedure.

3) Please provide a similar discussion of section 4.2 from the XM document as relevant to the design of this device (including figure 4 and 5). Note the design should be such that any signal from the XM side should be filtered out nearly completely for ≥ 928 MHz.

As in the previous comment, the measurements made demonstrate both compliance and necessary functionality. However, we have included a similar discussion of filter response for the current device in the addendum to the test procedure.

4) For this device, please explain for this device, the center frequency of the overall SDARS signal is shifted from 2332.5 MHz to _____ MHz.

The test report now details the translated center frequency (see p. 3).

5) Please explain the actual center channels that 2322.293 MHz and 2330.207 translate to (lower and upper channels). Please update the 731 form for these frequencies.

The test report now details the translated channels (pp. 4-5) and the 731 form has been updated with the highest and lowest channels passed by the device. Note the highest channel is the second lower XM satellite signal.

6) External photographs do to show a ferrite, but test photographs appear to show a ferrite on the DC power line. Please explain.

Our apologies; the OATS setup photographs supplied were from a much earlier round of testing. The updated final round photographs have been provided.

7) Page 12 of the test report appears to show data in excess of the limits. Please review.

Originally, the report showed that peak data did not pass the quasi-peak limit, so quasi-peak data was subsequently provided. With the new device, the peak data meets the quasi-peak limits without need for quasi-peak measurement.